

Appl. No. 10/822,207
Reply to Office Action of June 26, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An electromagnetic coupling with a pilot clutch for activating a main clutch wherein clutch plates are thrust with a retaining ring moved by magnetic force produced by an electromagnetic coil in the pilot clutch, wherein:

the electromagnetic coil in the pilot clutch is surrounded with stationary ferromagnetic material over its rear, inner peripheral and outer peripheral sides, namely over its sides other than its magnetic force exerting side which is its front side, and further [[that]] the ferromagnetic material is covered over its rear and outer peripheral sides with stationary nonmagnetic material made separately from the ferromagnetic material.

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Claim 2 (Previously Presented): An electromagnetic coupling as set forth in claim 1, wherein at least one of said retaining ring and said clutch plate in the pilot clutch is made of ferromagnetic material.

Claim 3 (Canceled).

Claim 4 (Previously Presented): An electromagnetic coupling as set forth in claim 7, wherein said ferromagnetic material is said spherical graphite cast iron and said spherical graphite cast iron has 0.1 to 1.5 % by weight of Mo added thereto.

Claim 5 (Canceled).

Claim 6 (Previously Presented): An electromagnetic coupling as set forth in claim 8, wherein said ferromagnetic material is said spherical graphite cast iron and said spherical graphite cast iron has 0.1 to 1.5 % by weight of Mo added thereto.

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Claim 7 (Previously Presented): An electromagnetic coupling as set forth in claim 1, wherein the ferromagnetic material is one of materials selected from the class which consists of a spherical graphite cast iron having a chemical composition containing by weight 2.7 to 3.9 % of C, 3.3 to 4.8 % of Si, 0.3 to 1.2 % of Mn, $P \leq 0.1 \%$, $S \leq 0.1 \%$, 0.01 to 0.1 % of Mg, 0.01 to 0.1 % of at least one of Ce and La and the balance Fe and having a carbon equivalent (C-E) ≥ 4.3 and a silicon steel containing by weight 2.8 to 3.3 % of Si, not greater than 1.0 % of Al, 0.1 to 0.2 % of Mn, not greater than 0.002 % of C and the balance Fe.

Claim 8 (Previously Presented): An electromagnetic coupling as set forth in claim 2, wherein the ferromagnetic material is one of materials selected from the class which consists of a spherical graphite cast iron having a chemical composition containing by weight 2.7 to 3.9 % of C, 3.3 to 4.8 % of Si, 0.3 to 1.2 % of Mn, $P \leq 0.1 \%$, $S \leq 0.1 \%$, 0.01 to 0.1 % of Mg, 0.01 to 0.1 % of at least one of Ce and La and the balance Fe and having a carbon equivalent (C-E) ≥ 4.3 and a silicon steel containing by weight 2.8 to 3.3 % of Si, not greater than 1.0 % of Al, 0.1 to 0.2 % of Mn, not greater than 0.002 % of C and the balance Fe.